

What is claimed is:

1. A method of cardioscopy, comprising:
  - creating a primary heart bypass circuit for perfusing an organism;
  - creating a secondary circuit for perfusing the heart of the organism with a non-observation-impairing pumping medium; and
  - observing the heart through the secondary circuit.
2. The method of claim 1, further comprising allowing the heart to continue beating.
3. The method of claim 1, wherein the pumping medium is oxygenatable.
4. The method of claim 1, wherein the organism is perfused with blood.
5. The method of claim 1, wherein creating the primary heart bypass circuit includes receiving blood from a vena cava and returning blood to the aorta.
6. The method of claim 1, wherein creating the primary heart bypass circuit includes perfusing a coronary blood vessel.
7. The method of claim 1, wherein the secondary circuit is fluidically isolated from the primary heart bypass circuit.
8. The method of claim 1, wherein creating the second circuit includes continuously perfusing the heart.
9. The method of claim 1, wherein creating the secondary circuit includes perfusing a chamber of the heart.
10. The method of claim 1, wherein creating the secondary circuit includes perfusing a coronary blood vessel.

11. The method of claim 1, wherein creating the secondary circuit includes receiving the pumping medium from the aorta and returning the pumping medium to a vena cava.
12. The method of claim 1, wherein the pumping medium is optically clear.
13. The method of claim 12, wherein the optically clear pumping medium is oxygenatable.
14. The method of claim 1, wherein the pumping medium is translucent.
15. The method of claim 1, wherein the pumping medium is non-turbid.
16. The method of claim 1, wherein the pumping medium includes a fluorocarbon.
17. The method of claim 16, wherein the fluorocarbon is perfluorocarbon.
18. The method of claim 1, wherein observing includes visualizing the heart through a catheter.
19. The method of claim 1, wherein observing includes visualizing with an angioscope.
20. The method of claim 1, wherein observing includes visualizing with an endoscope.
21. The method of claim 1, wherein observing includes observing a heart chamber.
22. The method of claim 1, wherein observing includes observing a heart valve.
23. The method of claim 1, further comprising performing an intracardiac procedure.
24. A cardioscopy apparatus, comprising:
  - a primary heart bypass circuit for perfusing an organism;
  - a secondary circuit for perfusing the heart of the organism with a non-observation-impairing pumping medium; and

an observation device for observing the heart through the secondary circuit.

- 25. The apparatus of claim 24, wherein the pumping medium is oxygenatable.
- 26. The apparatus of claim 24, wherein the organism is perfused with blood.
- 27. The apparatus of claim 24, wherein the primary heart bypass circuit receives blood from a vena cava and returns blood to the aorta.
- 28. The apparatus of claim 24, wherein the primary heart bypass circuit perfuses a coronary blood vessel.
- 29. The apparatus of claim 24, wherein the secondary circuit is fluidically isolated from the primary heart bypass circuit.
- 30. The apparatus of claim 24, wherein the second circuit continuously perfuses the heart.
- 31. The apparatus of claim 24, wherein the secondary circuit perfuses a chamber of the heart.
- 32. The apparatus of claim 24, wherein the secondary circuit perfuses a coronary blood vessel.
- 33. The apparatus of claim 24, wherein the secondary circuit receives the pumping medium from the aorta and returns the pumping medium to a vena cava.
- 34. The apparatus of claim 24, wherein the pumping medium is optically clear.
- 35. The apparatus of claim 34, wherein the optically clear pumping medium is oxygenatable.
- 36. The apparatus of claim 24, wherein the pumping medium is translucent.
- 37. The apparatus of claim 24, wherein the pumping medium is non-turbid.
- 38. The apparatus of claim 24, wherein the pumping medium includes a fluorocarbon.

39. The apparatus of claim 38, wherein the fluorocarbon is perfluorocarbon.
40. The apparatus of claim 24, wherein the observation device comprises an intracardiac visualization device.
41. The apparatus of claim 24, wherein the observation device comprises a catheter.
42. The apparatus of claim 24, wherein the observation device comprises an angioscope.
43. The apparatus of claim 24, wherein the observation device comprises an endoscope.
44. The apparatus of claim 24, further comprising an intracardiac procedure device.

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